

## STN Karlsruhe

L1 ANSWER 1 OF 1 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN  
 ACCESSION NUMBER: 1998-416484 [36] WPIDS  
 DOC. NO. NON-CPI: N1998-324296  
 TITLE: Thermal insulation casing, especially for undersea oil  
 pipeline - has microporous insulating layer of silicic  
 powder and ceramic fibres inside gas permeable envelope.  
 Q67  
 DERWENT CLASS:  
 INVENTOR(S): MARCHAL, P  
 PATENT ASSIGNEE(S): (ITPI-N) ITP SA; (ITPI-N) ITP  
 COUNTRY COUNT: 81  
 PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN	IPC
FR 2758872	A1	19980731	(199836)*		25	F16L059-153<--	
WO 9834061	A1	19980806	(199837)	FR		F16L059-20	
RW: AT BE CH DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW							
W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW							
AU 9861039	A	19980825	(199903)			F16L059-20	

## APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
FR 2758872	A1	FR 1997-1012	19970130
WO 9834061	A1	WO 1998-FR170	19980130
AU 9861039	A	AU 1998-61039	19980130

## FILING DETAILS:

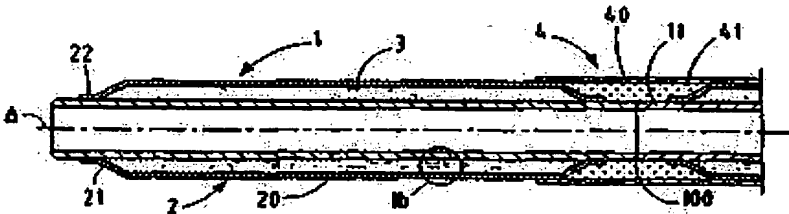
PATENT NO	KIND	PATENT NO
AU 9861039	A Based on	WO 9834061

PRIORITY APPLN. INFO: FR 1997-1012 19970130

## INT. PATENT CLASSIF.:

MAIN: F16L059-153; F16L059-20  
 SECONDARY: F16L013-02

## GRAPHIC INFORMATION:



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BASIC ABSTRACT:

FR 2758872 A UPAB: 19980911

The casing consists of a covering structure made from a main layer of a microporous insulating material (3), held under a vacuum against a relatively rigid supporting layer by an outer layer (2) of an elasto-plastic material. The casing can incorporate its own supporting layer, and the outer layer (2) is stuck to it round the edges.

The microporous material is in the form of strips made of a silicic powder and ceramic reinforcing fibres, compacted into a three-dimensional coherent structure of high porosity, contained in a gas-permeable envelope. The pressure inside the microporous material is between 0.5 and 100 mb. In a variant of the design the pipeline cover can be tunnel-shaped and fitted after the pipeline has been laid.

ADVANTAGE - Reduced heat losses and more convenient to install. Maintains the oil warm for a long duration.

Dwg.1a/4

FILE SEGMENT: GMPI  
FIELD AVAILABILITY: AB; GI